

IN THE CLAIMS:

1. (Currently amended) Transceiver ~~that~~ for use in an electronic device wherein said transceiver adapts itself to operate as an RF tag reader or as a Bluetooth transceiver by changing its reception and transmission capabilities, wherein a single antenna is useable for said transceiver operating as said RF tag reader or as said bluetooth transceiver.
2. (Original) The transceiver of claim 1, wherein said Bluetooth transceiver is useable as a transceiver for a 2.4 GHz ISM band RF tag reader system.
3. (Currently amended) The transceiver of claim 2~~1~~, wherein ~~a single antenna is useable for said transceiver as said RF tag reader or as said bluetooth transceiver~~ comprises an integrated circuit.
4. (Currently amended) The transceiver of claim 1 for said use in said electronic device comprising a mobile terminal device.
5. (Currently Amended) Radio device having a radio receiver and a radio transmitter ~~characterized by~~ wherein operability of said device is by using a single antenna in two modes, a bluetooth mode and an RF tag reader mode, said radio receiver and said radio transmitter comprising a single transceiver that adapts itself to operate as a bluetooth transceiver using said single antenna in said bluetooth mode and an RF-tag reader using said single antenna in said RF tag reader mode by changing its reception and transmission capabilities.
6. (Currently Amended) The radio device of claim 5, ~~further characterized by~~ wherein said operability of said radio device in either mode is by using said radio receiver and said radio transmitter.

7. (Currently Amended) The radio device of claim 5, ~~further characterized by wherein said radio device in an incorporating is incorporated in a device (90)~~ having additional device functionality-~~(92)~~.
8. (Currently Amended) The radio device of claim 7, ~~characterized by wherein said incorporating device in which said radio device is incorporated comprises comprising a mobile telephone.~~
9. (Currently Amended) The radio device of claim 5, further characterized by said radio device installed in a mobile telephone-~~(78)~~.
10. (Currently Amended) Radio device having a radio receiver, a radio transmitter, and a signal processor-~~(62)~~, wherein the radio receiver is responsive to an incoming analog radio signal ~~(72)~~ for providing a down converted and modulated signal to said signal processor, wherein the radio transmitter is responsive to an output signal from said signal processor for transmission as an outgoing analog radio signal-~~(70)~~, ~~characterized by said device further comprising~~ control logic ~~(66)~~ for controlling said radio device in two modes, a first mode for operating as a bluetooth device and a second mode for operating as an RF tag reader wherein said radio receiver and said radio transmitter comprise a single transceiver that adapts itself to operate with a single antenna as an RF tag reader or as a Bluetooth transceiver by changing its reception and transmission capabilities.
11. (New) Control logic for controlling a radio device in two modes, a first mode for operating as a Bluetooth device and a second mode for operating as an RF tag reader wherein said radio device comprises a single transceiver that adapts itself to operate with a single antenna as said RF tag reader or as a Bluetooth transceiver by changing its reception and transmission capabilities.

12. (New) Mobile telephone, comprising the transceiver of claim 1 in combination with means for communicating with a radio access network over a radio interface.
13. (New) The mobile telephone of claim 12, wherein said means for communicating includes a signal processor and a mobile telephone transceiver.
14. (New) Method, comprising,
switching a mode of a single transceiver able to operate as an RF tag reader in one mode and as a Bluetooth transceiver in another mode by changing reception and transmission capabilities of said single transceiver, and
using a single antenna for said single transceiver operating as said RF tag reader or as said Bluetooth transceiver.
15. (New) The method of claim 14, wherein said single transceiver is both for interrogating an RF tag and for participating in a bluetooth piconet.
16. (New) The method of claim 15, wherein said single transceiver and said single antenna are for use in a mobile telephone and wherein said method further comprises operating a mobile telephone transceiver of said mobile telephone over a radio interface to a radio access network.